

Supplementary Table 1. Risk of glioma in NHS, NHSII, and HPFS by categories of alcohol intake from specific beverages, mutually adjusted.

	Grams Alcohol/Day	Approximate Servings/Week	Total (n=554)		
			Cases	MV HR ^{ab}	95%CI
Beer	0-0.5	0-<0.25	385	Ref.	
	>0.5-2	>0.25-1	77	1.03	0.80-1.33
	>2-8	>1-4	66	1.26	0.94-1.69
	>8	>4	26	1.06	0.69-1.63
Red Wine	0-0.5	0-<0.25	357	Ref.	
	>0.5-2	>0.25-1	117	1.04	0.81-1.34
	>2-8	>1-4	68	1.08	0.78-1.49
	>8	>4	12	1.14	0.61-2.14
White Wine	0-0.5	0-<0.25	310	Ref.	
	>0.5-2	>0.25-1	148	0.93	0.73-1.18
	>2-8	>1-4	76	0.72	0.53-1.00
	>8	>4	20	0.89	0.54-1.47
Total Wine	0-0.5	0-<0.25	247	Ref.	
	>0.5-2	>0.25-1	154	0.98	0.79-1.21
	>2-8	>1-4	103	0.77	0.59-0.99
	>8	>4	50	0.89	0.63-1.25
Liquor	0-0.5	0-<0.25	337	Ref.	
	>0.5-2	>0.25-1	96	1.00	0.79-1.28
	>2-8	>1-4	62	0.85	0.63-1.14
	>8	>4	59	0.95	0.70-1.29

^aAdjusted for age (months), calendar year, smoking status (never vs. past vs. current), BMI (<25 kg/m² vs. ≥25-<30 kg/m² vs. ≥30 kg/m²), and total caloric intake (quintiles). Each beverage is also mutually adjusted for the others (e.g., beer adjusted for red and white wine and liquor).

^bCalculated by fixed effect meta-analysis of all three cohorts.

Abbreviations: BMI, body mass index; CI, confidence interval; HPFS, Health Professionals Follow-Up Study; HR, hazard ratio; MV, multivariable; NHS, Nurses' Health Study; NHSII, Nurses' Health Study II

Supplementary Table 2. Risk of glioma in NHS, NHSII, and HPFS by alcohol consumption patterns.

		Women			Men			Total		
		Cases	MV HR ^{ab}	95%CI	Cases	MV HR ^a	95%CI	Cases	MV HR ^{ac}	95%CI
Days per Week Consume Alcohol	0-<2	187	Ref.		85	Ref.		272		
	≥2	83	1.20	0.86-1.68	86	1.11	0.72-1.73	169	1.17	0.89-1.52
Maximum Alcoholic Beverages in a Day	0	88	Ref.		47	Ref.		135		
	>0-3	127	1.14	0.83-1.57	61	1.16	0.72-1.87	188	1.15	0.88-1.50
	>3-4	43	1.18	0.76-1.83	42	1.75	1.00-3.07	85	1.37	0.97-1.94
	>4	5	0.90	0.34-2.41	8	1.68	0.72-3.88	13	1.29	0.68-2.44

^aAdjusted for age (months), calendar year, smoking status (never vs. past vs. current), BMI (<25 kg/m² vs. ≥25-<30 kg/m² vs. ≥30 kg/m²), total caloric intake (quintiles), and total alcohol intake (0-0.5, >0.5-1.5, >1.5-2, >2-8, >8-15, >15-45 g/d).

^bCalculated by fixed effect meta-analysis of NHS and NHSII.

^cCalculated by fixed effect meta-analysis of the three cohorts.

Abbreviations: BMI, body mass index; CI, confidence interval; HPFS, Health Professionals Follow-Up Study; HR, hazard ratio; MV, multivariable; NHS, Nurses' Health Study; NHSII, Nurses' Health Study II;

Supplementary Table 3. Risk of glioma in NHS, NHSII, and HPFS by categories of cumulative average total alcohol intake, and separately for alcohol intake from specific beverages, with exclusion of participants who reduced alcohol intake prior to baseline.

	Grams Alcohol/Day	Approximate Servings/Week	Women (n=316)			Men (n=174)			Total (n=490)		
			Cases	MV HR ^{ab}	95%CI	Cases	MV HR ^a	95%CI	Cases	MV HR ^{ac}	95%CI
Total Alcohol	0-0.5	0-<0.25	106	Ref.		30	Ref.		136	Ref.	
	>0.5-2	>0.25-1	66	0.97	0.71-1.33	17	0.64	0.35-1.17	83	0.89	0.68-1.18
	>2-8	>1-4	87	1.06	0.79-1.42	43	0.66	0.41-1.07	130	0.93	0.73-1.20
	>8-15	>4-7.5	36	0.93	0.63-1.37	30	0.62	0.37-1.05	66	0.80	0.59-1.10
	>15	>7.5	21	0.59	0.36-0.96	54	0.86	0.53-1.38	75	0.71	0.51-1.00
Beer	0-0.5	0-<0.25	244	Ref.		75	Ref.		319	Ref.	
	>0.5-2	>0.25-1	39	0.99	0.70-1.39	48	1.25	0.86-1.81	87	1.10	0.86-1.42
	>2-8	>1-4	28	1.28	0.84-1.93	33	1.10	0.72-1.67	61	1.18	0.88-1.59
	>8	>4	5	0.69	0.28-1.68	18	1.16	0.68-1.97	23	1.01	0.64-1.60
Red Wine	0-0.5	0-<0.25	216	Ref.		89	Ref.		305	Ref.	
	>0.5-2	>0.25-1	64	0.94	0.71-1.25	44	1.03	0.71-1.49	108	0.97	0.78-1.22
	>2-8	>1-4	33	0.86	0.59-1.26	32	1.02	0.67-1.54	65	0.93	0.70-1.23
	>8	>4	3	0.57	0.18-1.80	9	1.37	0.68-2.75	12	1.08	0.59-1.96
White Wine	0-0.5	0-<0.25	182	Ref.		78	Ref.		260	Ref.	
	>0.5-2	>0.25-1	80	0.95	0.73-1.24	60	1.05	0.74-1.48	140	0.99	0.80-1.22
	>2-8	>1-4	47	0.85	0.61-1.18	24	0.63	0.40-1.00	71	0.77	0.59-1.01
	>8	>4	7	0.53	0.25-1.14	12	1.48	0.79-2.74	19	0.98	0.61-1.59
Total Wine	0-0.5	0-<0.25	149	Ref.		52	Ref.		201	Ref.	
	>0.5-2	>0.25-1	88	0.96	0.73-1.25	58	1.26	0.86-1.85	146	1.05	0.84-1.30
	>2-8	>1-4	62	0.89	0.65-1.20	33	0.69	0.44-1.08	95	0.82	0.64-1.05
	>8	>4	17	0.59	0.35-0.98	31	1.41	0.89-2.23	48	0.95	0.68-1.34
Liquor	0-0.5	0-<0.25	207	Ref.		75	Ref.		282	Ref.	
	>0.5-2	>0.25-1	55	1.03	0.76-1.39	38	1.11	0.75-1.65	93	1.06	0.83-1.34
	>2-8	>1-4	34	1.04	0.71-1.51	25	0.66	0.42-1.06	59	0.87	0.65-1.17
	>8	>4	20	0.86	0.53-1.38	36	1.10	0.72-1.68	56	0.99	0.72-1.35

^aAdjusted for age (months), calendar year, BMI (<25 kg/m² vs. ≥25-<30 kg/m² vs. ≥30 kg/m²), smoking status (never vs. past vs. current), and total caloric intake (quintiles).

^bCalculated by fixed effect meta-analysis of NHS and NHSII.

^cCalculated by fixed effect meta-analysis of all three cohorts.

Abbreviations: BMI, body mass index; CI, confidence interval; HPFS, Health Professionals Follow-Up Study; HR, hazard ratio; MV, multivariable; NHS, Nurses' Health Study; NHSII, Nurses' Health Study II;